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**United States Patent** [19]  
**Beelman et al.**

[11] **Patent Number:** 5,919,507  
[45] **Date of Patent:** Jul. 6, 1999

[54] **PRESERVATION COMPOSITIONS AND METHODS FOR MUSHROOMS**

[75] **Inventors:** Robert B. Beelman; Eric M. Duncan, both of State College, Pa.

[73] **Assignee:** The Penn State Research Foundation, University Park, Pa.

[21] **Appl. No.:** 09/120,905

[22] **Filed:** Jul. 22, 1998

**Related U.S. Application Data**

[60] **Provisional application No.** 60/060,670, Oct. 2, 1997.

[51] **Int. Cl.<sup>6</sup>** A23L 3/34

[52] **U.S. Cl.** 426/268; 426/303; 426/310; 426/335; 426/615

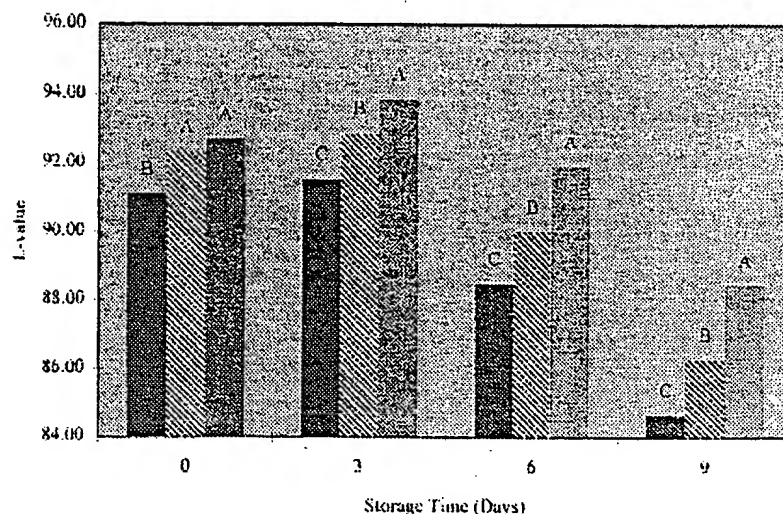
[58] **Field of Search** 426/335, 303, 426/310, 615, 268; 252/380

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

3,718,482 2/1973 Hinkley 99/150

8 Claims, 20 Drawing Sheets



- 1. Sodium bicarbonate @ pH 11.0, 120s; 0.8% Ea + 3.2% NaE, 60s
- ▨ 2. Sodium bicarbonate @ pH 11.0, 120s; 0.8% Ea + 3.2% NaE + 1000 ppm EDTA, 60s
- 3. Sodium bicarbonate @ pH 11.0, 120s; 0.8% Ea + 3.2% NaE + 1000 ppm EDTA + 1000 ppm CaCl<sub>2</sub>, 60s

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